SECTION 1. Identification of the substance/mixture and of the company/enterprise

1.1. Product identifier

Product name : BATFOAM
Product code: refer to sales department

1.2. Relevant identified uses of the substance or mixture and uses advised against

Anti-Foaming Agents
Sectors of use:
Industrial Manufacturing[SU3]
Product category:
Non Tradotta

Not recommended uses
Do not use for purposes other than those listed

1.3. Details of the supplier of the safety data sheet

AEB SpA - Via Vittorio Arici 104 S.Polo - 25134 Brescia (BS) Italy
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E-mail: info@aeb-group.com - Internet: www.aeb-group.com
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Produced by
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1.4. Emergency telephone number

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AEB AFRICA (PTY) LTD
Switchboard: +27 215512700 (GMT +1; Language: English, Afrikaans)

AEB OCEANIA PTY LTD
Switchboard: +61 1300 704 971 (GMT +9; Language: English)

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Pictograms:
None

Hazard Class and Category Code(s):
Non hazardous

Hazard statement Code(s):
Non hazardous

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:

Pictogram, Signal Word Code(s):
None

Hazard statement Code(s):
Non hazardous

Supplemental Hazard statement Code(s):
EUH208 - Contains preservatives: C(M)IT/MIT (3:1). May produce an allergic reaction.
EUH210 - Safety data sheet available on request.

Precautionary statements:
None in particular.

2.3. Other hazards

Based on the available data, no PBT or vPvB substances are present in accordance with Regulation (EC) 1907/2006, annex XIII

Based on available data, there are no substances that interfere with the Endocrine System in accordance with

Regulation (EU) 2017/2100

Do not ingest. Keep out of reach of children.

SECTION 3. Composition/information on ingredients

3.1 Substances

Irrilevant

3.2 Mixtures

Substance	Concentration[w/w]	Classification	Index	CAS	EINECS	REACh
C(M)IT/MIT (3:1)* B	0 ≤ x < 0,0015	EUH071; Acute Tox. 3, H301; Acute Tox. 2, H310; Skin Corr. 1C, H314; Skin Sens. 1A, H317; Eye Dam. 1, H318; Acute Tox. 2, H330; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Limits: Skin Corr. 1C, H314 %C >=0,6; Skin Irrit. 2, H315 0,06<= %C <0,6; Eye Dam. 1, H318 %C >=0,6; Eye Irrit. 2, H319 0,06<= %C <0,6; Skin Sens. 1A, H317 %C >=0,0015; Acute toxicity M-factor = 100 Chronic toxicity M-factor = 1 ATE oral = 457,000 mg/kg ATE dermal = 660,000 mg/kg ATE inhal = 1,230 mg/l/4 h	613-167-00-5	55965-84-9	911-418-6	

*reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one (3:1)
Compliance Reg. (UE) n. 528/2012 PT06

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: eliminate any contact lenses. Wash immediately and abundantly with water for at least 30/60 minutes, opening the eyelids wide. Consult a doctor immediately.
SKIN: take off contaminated clothing. Shower immediately. Consult a doctor immediately.

INGESTION: drink as much water as possible. Consult a doctor immediately. Do not induce vomiting unless specifically authorized by your doctor.
INHALATION: call a doctor immediately. Move the person to fresh air, away from the scene of the accident. If breathing stops, give artificial respiration. Adopt adequate precautions for the rescuer

4.2. Most important symptoms and effects, both acute and delayed

No data available.

4.3. Indication of any immediate medical attention and special treatment needed

If you feel unwell, go to a doctor or the emergency room and if possible show this document. Symptomatic treatment

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING MEANS The extinguishing means are traditional: carbon dioxide, foam, powder and nebulized water.
UNSUITABLE EXTINGUISHING MEANS None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS DUE TO EXPOSURE IN THE EVENT OF FIRE
Avoid breathing combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION
Cool the containers with jets of water to avoid decomposition of the product and the development of substances potentially dangerous to health. Always wear full fire protection equipment. Collect extinguishing water that must not be discharged into sewers. Dispose of the contaminated water used for extinguishing and the residue of the fire according to current regulations.
EQUIPMENT
Normal clothing for fighting fire, such as an open circuit compressed air breathing apparatus (EN 137), flame retardant suit (EN469), flame retardant gloves (EN 659) and boots for firefighters (HO A29 or A30).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:
Stop the leak if there is no danger. Move away from the area surrounding the spill or release.

6.1.2 For emergency responders:
Wear appropriate protective equipment (including personal protective equipment referred to in section 8 of the safety data sheet) to prevent contamination of skin, eyes and personal clothing. Stop the leak if there is no danger. Evacuate the danger area and, if necessary, consult an expert. Eliminate all open flames and possible sources of ignition. Not smoking. Provide adequate ventilation. Evacuate the danger area and, if necessary, consult an expert.

6.2. Environmental precautions

Contain spills with earth or sand.
If the product has entered a watercourse, sewers or has contaminated soil or vegetation, notify the authorities.
Dispose of the waste material in compliance with the regulations

6.3. Methods and material for containment and cleaning up

6.3.1 Containment:
Recover the product for reuse, if possible, or for removal. Possibly absorb it with inert materia or sucked it.
Prevent it from entering the sewer system.

6.3.2 Cleaning up:
After wiping up, wash with water the area and materials involved

6.3.3 Other information:
None in particular.

6.4. Reference to other sections

Refer to paragraphs 8 and 13 for more information

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Handle the product after consulting all other sections of this safety data sheet. Avoid dispersing the product into the environment. Do not eat, drink or smoke during use. Remove contaminated clothing and protective equipment before entering eating areas.

7.2. Conditions for safe storage, including any incompatibilities

Keep in original container closed tightly. Do not store in open or unlabelled containers.
Keep containers upright and safe by avoiding the possibility of falls or collisions.
Store in a cool and dry place, away from heat sources and direct exposure to sunlight.

7.3. Specific end use(s)

Industrial Manufacturing:
Store only in the original container. Keep containers closed, in a well-ventilated place, away from direct sunlight. Store containers away from any incompatible materials, checking section 10.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

==========
Related to contained substances:
C(M)IT/MIT (3:1):

Limit value - Eight hours
(ppm)/(mg/m³)

Austria: -/0,05
Germany (DFG): -/0,2 (1)
Switzerland: -/0,2 (1)

Limit value - Short term
(ppm)/(mg/m³)
Germany (DFG): -/0,4 (1)(2)
Switzerland: -/0,4 (1)

Germany (DFG) (1) Inhalable fraction (2) 15 minutes average value
Switzerland (1) inhalable fraction

- Substance: C(M)IT/MIT (3:1)
DNEL
Systemic effects Long term Consumers oral = 0,09 (mg/kg bw/day)
Systemic effects Short term Consumers oral = 0,11 (mg/kg bw/day)
Local effects Long term Workers inhalation = 0,02 (mg/m3)
Local effects Long term Consumers inhalation = 0,02 (mg/m3)
Local effects Short term Workers inhalation = 0,04 (mg/m3)
Local effects Short term Consumers inhalation = 0,04 (mg/m3)
PNEC
Sweet water = 0,00339 (mg/l)
sediment Sweet water = 0,027 (mg/kg/sediment)
Sea water = 0,00339 (mg/l)
sediment Sea water = 0,027 (mg/kg/sediment)
STP = 0,23 (mg/l)
ground = 0,001 (mg/kg ground)

8.2. Exposure controls

Appropriate engineering controls:
Industrial Manufacturing:
No specific monitoring foreseen (act according to good practice and specific rules for the type of risk associated)

8.2.2 Individual protection measures:

(a) Eye / face protection
We recommend wearing tightly fitting protective goggles (ref. standard EN 166).

(b) Skin protection

(i) Hand protection
Protect hands with category III work gloves (ref. standard EN 374).
For the final choice of work glove material, the following must be considered: compatibility, degradation, breakthrough time and permeation. In the case of preparations, the resistance of work gloves to chemical agents must be checked before use as it cannot be predicted. I gloves have a wear time that depends on the duration and mode of use.

(ii) Other
Wear long-sleeved work clothes and category I safety footwear for professional use (ref. Regulation 2016/425 and EN ISO 20344). Wash with soap and water after removing protective clothing.

(c) Respiratory protection
Not needed for normal use.
If the threshold value (e.g. TLV-TWA) of the substance or one or more of the substances in the product is exceeded, it is recommended to wear a mask with a type A filter, the class (1, 2 or 3) of which must be chosen in relation to the threshold concentration to be used. (ref. standard EN 14387). If gases or vapours of a different nature are present and/or gases or vapours with particles (aerosols, fumes, mists, etc.) combined type filters must be provided.
The use of respiratory protective equipment is necessary if the technical measures taken are not sufficient to limit the worker's exposure to the threshold values taken into account. The protection offered by masks is in any case limited. In the event that the substance in question is odourless or its odour threshold is higher than the relevant TLV-TWA and in the event of an emergency wear an open-circuit self-contained compressed air breathing apparatus (ref. standard EN 137) or a supplied-air respirator (ref. standard EN 138). For the correct choice of respiratory protective device, refer to EN 529.

(d) Thermal hazards
No hazard to report

Environmental exposure controls:
Use according to good working practices and avoid to disperse the product into the environment.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
Physical state	Liquid	
Colour	White	
Odour	characteristic	
Odour threshold	not determined as it is considered not relevant for the characterization of the product	
Melting point/freezing point	not determined as it is considered not relevant for the characterization of the product	
Boiling point or initial boiling point and boiling range	not determined as it is considered not relevant for the characterization of the product	
Flammability	not determined as it is considered not relevant for the characterization of the product	
Lower and upper explosion limit	not determined as it is considered not relevant for the characterization of the product	
Flash point	not determined as it is considered not relevant for the characterization of the product	
Auto-ignition temperature	not determined as it is considered not relevant for the characterization of the product	
Decomposition temperature	not determined as it is considered not relevant for the characterization of the product	
pH	4.0 ± 0.5 (20°C; 100%); 7.5 ± 0.5 (20°C; Sol. 0.5%)	
Kinematic viscosity	not determined as it is considered not relevant for the characterization of the product	
Solubility	in water	
Water solubility	soluble	
Partition coefficient n-octanol/water (log value)	not determined as it is considered not relevant for the characterization of the product	

Physical and chemical properties	Value	Determination method
Vapour pressure	not determined as it is considered not relevant for the characterization of the product	
Density and/or relative density	1.00 ± 0.05 (20°C)	
Relative vapour density	not determined as it is considered not relevant for the characterization of the product	
Particle characteristics	not determined as it is considered not relevant for the characterization of the product	

9.2. Other information

Total solids (105°C / 221°F) 18.00 %.

VOC (Directive 2010/75/EC) : 0

VOC (volatile carbon) : 0

9.2.1 Information with regard to physical hazard classes

Irrilevant

9.2.2 Other safety characteristics

Irrilevant

SECTION 10. Stability and reactivity

10.1. Reactivity

No reactivity hazards

10.2. Chemical stability

No hazardous reaction when handled and stored according to provisions.

10.3. Possibility of hazardous reactions

There are no hazardous reactions

10.4. Conditions to avoid

None in particular. However, follow the usual precautions regarding chemical products.

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

ATE(mix) oral = Not classified (no relevant components)
ATE(mix) dermal = Not classified (no relevant components)
ATE(mix) inhal = Not classified (no relevant components)

(a) acute toxicity: C(M)IT/MIT (3:1): Oral LD50 rat: 457 mg / kg bw LC50 (4 h) rat inhalation: 1.23 mg / m³
dermal LD50 rabbit: 660 mg / kg bw
(b) skincorrosion/irritation: C(M)IT/MIT (3:1): Corrosive
C(M)IT/MIT (3:1): Irritating
(c) serious eye damage/irritation: C(M)IT/MIT (3:1): Corrosive
C(M)IT/MIT (3:1): Irritating
(d) respiratoryorskinsensitisation: C(M)IT/MIT (3:1): Sensitizer
TEST: Ensibilization - METHOD: OECD 406 - CAVIA: Guinea pig - RESULT: sensitizer (S171)
(e) germ cell mutagenicity: C(M)IT/MIT (3:1): It does not meet the classification criteria for this hazard class
(f) carcinogenicity: C(M)IT/MIT (3:1): It does not meet the classification criteria for this hazard class
(g) eproductivetoxicity: C(M)IT/MIT (3:1): It does not meet the classification criteria for this hazard class
(h) specific target organ toxicity (STOT) single exposure: C(M)IT/MIT (3:1): It does not meet the classification criteria for this hazard class
(i) specific target organ toxicity (STOT) repeated exposureC(M)IT/MIT (3:1): It does not meet the classification criteria for this hazard class
(j) aspiration hazard: C(M)IT/MIT (3:1): It does not meet the classification criteria for this hazard class

==========
Related to contained substances:
C(M)IT/MIT (3:1):
LD50 (rat) Oral (mg/kg body weight) = 457
LD50 Dermal (rat or rabbit) (mg/kg body weight) = 660
CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 1,23

11.2. Information on other hazards

No data available.

11.2.1. Endocrine disrupting properties

Based on available data, there are no substances that interfere with the Endocrine System in accordance with Regulation (EU) 2017/2100

SECTION 12. Ecological information

12.1. Toxicity

==========
Related to contained substances:
C(M)IT/MIT (3:1):

Acute toxicity - fish LC50 (mg / l / 96h): nd
Acute toxicity - crustaceans EC50 (mg / l / 48h): 0.007 Acartia tonsa (Weideborg 1995) Acute toxicity algae ErC50 (mg / l / 72-96h): nd
Toxicity chronic - fish NOEC (mg / l): 0.098 Oncorhynchus mykiss (Scheerbaum, 1999) Chronic toxicity - crustaceans NOEC (mg / l): 0.0036 Daphnia magna (Mattock 1996)
Chronic algae toxicity NOEC (mg / l): nd
Acute toxicity M-factor = 100
Chronic toxicity M-factor = 1

Use according to good working practices and avoid to disperse the product into the environment.

12.2. Persistence and degradability

==========
Related to contained substances:
C(M)IT/MIT (3:1):
ACTIVATED SLUDGE TOXICITY:
EC50 / 3h: 7.92 mg / L (OECD 209)
EC50 / 3h: 0.97 mg / L (OECD 209)

BEHAVIOR IN WASTEWATER TREATMENT PLANTS:
OECD 302 B Zahn-Wellens Test: 100% (activated sludge)
OECD 303 A (Activated Sludge Units):> 80% (activated sludge)

Rapidly degradable OECD 301 D Closed Bottle Test> 60% (activated sludge) S 200 (b)

12.3. Bioaccumulative potential

==========
Related to contained substances:
C(M)IT/MIT (3:1):
Information not available

12.4. Mobility in soil

==========
Related to contained substances:
C(M)IT/MIT (3:1):
Information not available

12.5. Results of PBT and vPvB assessment

Based on the available data, no PBT or vPvB substances are present in accordance with Regulation (EC) 1907/2006, annex XIII

12.6. Endocrine disrupting properties

Based on available data, there are no substances that interfere with the Endocrine System in accordance with Regulation (EU) 2017/2100

12.7. Other adverse effects

No adverse effects

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies.
Recover if possible. Operate according to local or national regulations

SECTION 14. Transport information

14.1. UN number or ID number

Not included in the field of application of regulations concerning the transport of dangerous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).

14.2. UN proper shipping name

None

14.3. Transport hazard class(es)

None

14.4. Packing group

None

14.5. Environmental hazards

None

14.6. Special precautions for user

No data available.

14.7. Maritime transport in bulk according to IMO instruments

Transport in bulk is not foreseen

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Restrictions relating to the product or the substances contained (Annex XVII EC Reg. 1907/2006): not applicable
Substances in Candidate list (art. 59 EC Reg. 1907/2006): the product does not contain SVHC in percentage = a 0.1 %.

Regulation (EC) 648/04: see point 2.2

Regulation (EU) 528/2012: see point 2.2
REGULATION (EU) No 1357/2014 - waste:
HP4 - Irritant — skin irritation and eye damage
HP14 - Ecotoxic

15.2. Chemical safety assessment

No chemical safety assessment was carried out by the supplier

SECTION 16. Other information

16.1. Other information

Points modified compared to previous release: 1 2.1. Classification of the substance or mixture, 2.2. Label elements, 2.3. Other hazards, 3.2 Mixtures, 4.1. Description of first aid measures, 4.3. Indication of any immediate medical attention and special treatment needed, 5.1. Extinguishing media, 5.2. Special hazards arising from the substance or mixture, 5.3. Advice for firefighters, 6.1. Personal precautions, protective equipment and emergency procedures, 6.3. Methods and material for containment and cleaning up, 7.1. Precautions for safe handling, 7.3. Specific end use(s), 8.1. Control parameters, 8.2. Exposure controls, 9.2.1 Information with regard to physical hazard classes, 9.2.2 Other safety characteristics, 10.2. Chemical stability, 10.4. Conditions to avoid, 10.5. Incompatible materials, 10.6. Hazardous decomposition products, 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008, 11.2. Information on other hazards, 12.1. Toxicity, 12.2. Persistence and degradability, 12.3. Bioaccumulative potential, 12.4. Mobility in soil, 12.6. Endocrine disrupting properties, 13.1. Waste treatment methods, 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Description of hazard statements set out in paragraph 3
H301 = Toxic if swallowed.
H310 = Fatal in contact with skin.
H314 = Causes severe skin burns and eye damage.
H317 = May cause an allergic skin reaction.
H318 = Causes serious eye damage.
H330 = Fatal if inhaled.
H400 = Very toxic to aquatic life.
H410 = Very toxic to aquatic life with long lasting effects.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:
Calculation method

Main normative references:
Reg. (CE) n. 1907 del 18/12/06 REACH (Registration, Evaluation and Authorisation of CHemicals) et seq.
Reg. (CE) 1272/2008 CLP (Classification Labelling and Packaging) et seq.
Directive 2012/18/EU (on the control of major-accident hazards involving dangerous substances) et seq.

Training required: This document must be submitted to the employer to determine the possible need for appropriate training for workers to ensure protection of human health and the environment.

n.a.: not applicable
n.d.: not available
ADR: Accord europèen relative au transport International des merchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
ATE: Acute Toxicity Estimat
BFC: BioconCentration Factor
BOD: Biochemical Oxigen Demand
CAS: Chemical Abstract Service number
CAP: Centre AntiPoison
CE/EC number EINECS (European Inventory of existing Commercial Substances) e ELINCS (European List of notified Chemical Substances)

CL50/LC50: Lethal Concentration 50
DL50/LD50: Lethal Dose 50
COD: Chemical Oxygen Demand
DNEL: Derived No Effect Level
EC50: half maximal Effective Concentration
ERC: Enviroment Release Classes
EU/UE: European Union
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
IMDG: International Maritime Dangerous Goods code
Kow: Octanol water partition coefficient
NOEC: No Observed Effect Concentration
OEL: Occupational Exposure Limit
PBT: Persistent Bioaccumulative and Toxic
PC: Product Categories
PNEC: Predicted No Effect Concentration
PROC: Process Categories
RID: Règlement concernent le transport International ferroviaire des merchandises dangereuses (Regulations concerning International rail transport of dangerous goods)
STOT: Target Organ Systemic Toxicity
STOT (RE): Repeated Exposure
STOT (SE): Single Exposure
STP: Sewage Treatment Plants
SU: Sector of Use
SVCH: Substance of Very High Concern
TLV: Threshold Limit Value
vPvB: Very Persistent Very Bioaccumulative

References and Sources:
- ECHA Registered Substances:
https://echa.europa.eu/web/guest/information-on-chemicals/registered-substances

- SDS raw material supplier

- GESTIS International Limit Value: http://limitvalue.ifa.dguv.de

This msds was made in good faith by technical Office on the basis of the information available at the date of the last revision. The person in charge must regularly inform the employees about the specific risks they encounter when using this substance/product. The information contained here relate only to the substance/the preparation indicated and may not apply if the product is used improperly or in combination with others. Nothing contained herein shall be construed as a guarantee, either express or implied. It is the responsibility of the user to ensure the opportunities and completeness of the information contained herein for their own particular use.

*** this tab annuls and replaces any previous edition. (IIXX)

Changes to the previous edition: raw materials change